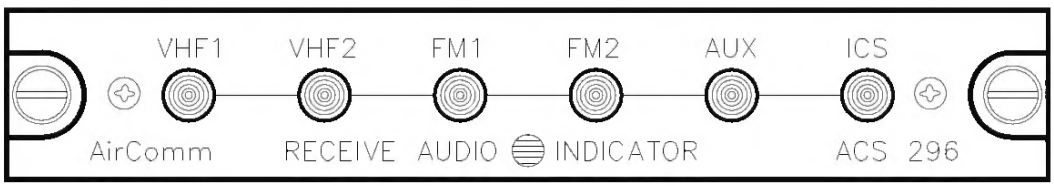
Air Comm Systems, Inc.

Receive Audio Indicator Panel
Installation Manual

ACS 296

Revision 1.1



AirComm

Airborne Audio Products

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ACS 296 Installation Manual
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ACS 296 Installation Manual
General Operating Specifications

■ Unit Description

The ACS 296 Receive Audio Indicator Panel is a compact, Dzus mounted unit that provides a visual status of which receive audios are active in the aircraft audio system. The ACS 296 is designed to be interfaced with a Single or Dual Channel Audio Mixer Panel and installed in close proximity to that panel for easy reference by the user.

■ Method of Operation

The ACS 296 senses the incoming receive audios and displays the active status on the the front panel. The active status is indicated by a glowing green LED. The intensity of the indicator is controlled by a photo sensor located on the front of the ACS 296; as the ambient light conditions change in the cockpit or cabin, so will the LED intensity.

■ Operating Specifications

Audio Input: Up to 6 audios

Duty Cycle: Continuous

Power Requirements: 28V DC +/- 10%

Maximum Operating Altitiude: 22,000 ft.

Operating Temperature Range: -40 C to +85 C (operating), -65 C to +125 C (storage)

Current Drain: 100mA minimum; 750 mA maximum

■ Physical Specifications

Size: 5.75 in. (14.61 cm) W
1.125 in. (2.86 cm) H
4.30 in. (10.92 cm) D

Weight: .75 lb. (0.38 kg)

Illumination: Edge lit front panel per MIL-P-7738E,type 5. Capable of connection to dimmer bus for adjustment. RX Status indicators are 5.0V Green LED's.

Mounting: Standard Dzus rail mount, two (2) fasteners

Controls: None

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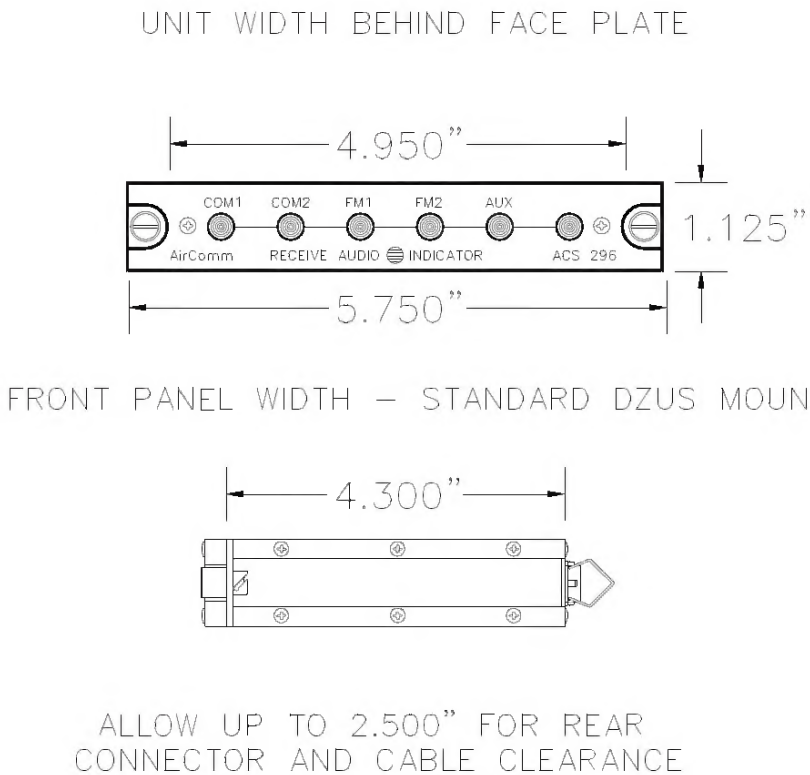
■ Physical Dimension Outline



The ACS 296 is designed to be Dzus mounted in close proximity to the Audio Mixer Panel it will interface with. The unit should be installed in the aircraft using the DC09-USFS-F Installation kit that was included. The above outline drawing of the unit with dimensions will facilitate the installation.

The DC09-USFS-F Installation Kit consists of the following:

One (1) 9 pin AMP D-Subminiature mating connector (female) complete with crimp pins, hood, and latch.

The connector pin configuration of the ACS 296 rear connector and the recommended wire size for the aircraft cable harness is shown on the following page.

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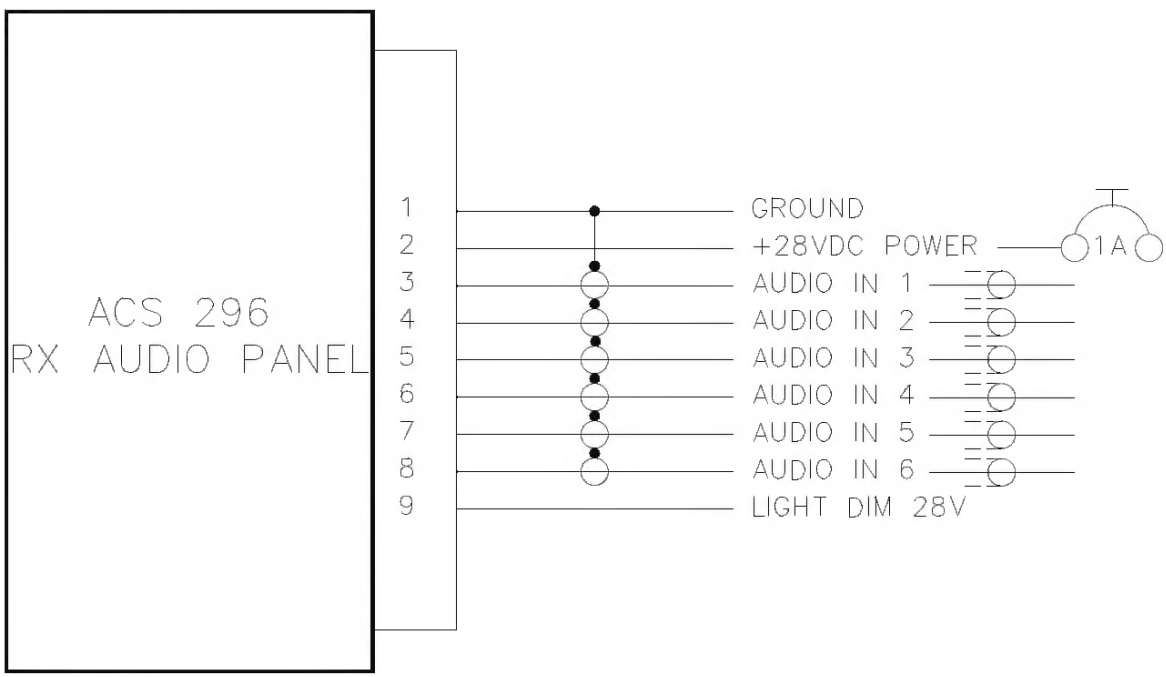
■ Connector Schematic



The ACS 296 wiring harness should be constructed of Tefzel aircraft wire (M22759/16 grade). Power and ground wires should be 22 AWG. Shielded wires should be used where noted. Adequate protection against wear and chafing should be taken by using a braided cable sleeving or jacket. Before completing installation, verify that all cable connector pins are seated properly and that the connector is securely mounted to the unit mating connector.

Pre-fabricated cable harnesses are available from Air Comm to expedite installation — consult our sales department for details.

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ACS 296 Installation Manual
Continued Airworthiness Insrtuctions

Instruction for continued airworthiness forReceive Audio Indicator Panel Model ACS-296.

GENERAL DESCRIPTION:

The ACS 296 Receive Audio Indicator Panel is a compact, Dzus mounted unit that provides a visual status of which receive audios are active in the aircraft audio system. The ACS 296 is designed to be interfaced with a Single or Dual Channel Audio Mixer Panel and installed in close proximity to that panel for easy reference by the user.

PURPOSE:

To provide instructions for the maintenance and inspection of the Air Comm Systems, Inc. Model ACS-296 Receive Audio Indocator Panel.

This Manual provides instructions supplementing the aircraft maintenance manual. These instructions only supersede the aircraft manual in the indicated areas.

OPERATIONAL CHECK:

The Receive Audio Indicator Panel should be checked prior to first flight each day per current operations manual.

MAINTENANCE:

Check security and condition of Dzus mounted panel(s), check associated wiring hareness at periodic inspections such as annual/100 hour IAW FAR43 Appendix D(i).

On Condition.

Send Receive Audio Indicator Panels to qualified repair facility for any repairs. Contact Air Comm Systems, Inc. Phone 909-0824-8860 or FAX 909-824-8862 for nearest factory authorized repair facility.

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■ Warranty Information

Air Comm Systems, Inc. warrants each new product to be free from defective material and workmanship and agrees to remedy any defect or to furnish a new part in exchange for any defective unit provided an examination discloses such defect occurred under normal use and service, and provided the defective unit is delivered to us, with transportation charges prepaid, within 1 year from the date of acceptance of equipment by the owner. Each unit required and claimed defective must be returned to:

Air Comm Systems, Inc.

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Phone (928) 854-5402
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This warranty does not extend to any products which have been subjected to misuse, neglect, accident, or in violation of instructions furnished, nor does it extend to units which have been repaired or altered outside of our factory except where such repairs are specifically authorized in writing by us.This warranty is in lieu of all other warranties expressed or implied, and no representative or person is authorized to assume for us any other liability in connection with the sale of our products.

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